FS 2.6011: 13/28

Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER *634-5131*

For release July 17, 1964 | ATLANTA, GEORGIA 30333 | Vol. 13, No. 28

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JULY 11, 1964

UNIVERSITY OF FLORIDA LIBRARIES AUG 1964

BRUCELLOSIS

A total of 12 cases of brucellosis was reported for the week ended July 11. This brings to 213 the cumulative total of cases reported thus far in 1964. For the comparable period of 1963, 189 cases were reported. A table of reported brucellosis cases through the 28th week and the annual totals for the past 5 years is shown in the accompanying table.

Of the cases reported to date in 1964, the 7 States comprising the West North Central area have reported 99 (47 percent) of the U. S. total. Iowa accounts for 58 of the 99 cases. Cases have been reported from each geographic subdivision, and from 32 States and New York City this year.

BRUCELLOSIS - UNITED STATES

Cumulative Cases through 28th Week				
1964	1963	1962	1961	1960
212	189	222	321	460
Annual Totals				
	382*	409	636	751

* Provisional total

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

Disease	Week Ended		Median	Cumulative, First Weeks		Median
	1964	1963	1959 - 1963	1964	1963	1959 - 1963
Aseptic meningitis	34	49	---	829	708	---
Brucellosis	12	15	15	212	189	321
Diphtheria	6	2	4	144	143	318
Encephalitis, primary infectious	32	35	---	1,005	852	---
Encephalitis, post-infectious	15		---	567		---
Hepatitis, infectious including serum hepatitis	565	607	607	22,549	24,792	24,794
Measles	4,047	4,886	4,886	422,517	344,726	370,898
Meningococcal infections	38	37	39	1,611	1,513	1,406
Poliomyelitis, Total	4	11	28	48	114	277
Paralytic	4	8	18	36	94	190
Nonparalytic	-	2	---	9	12	---
Unspecified	-	1	---	3	8	---
Streptococcal Sore Throat and Scarlet fever	4,263	3,786	---	259,631	222,069	---
Tetanus	2	5	---	130	126	---
Tularemia	10	15	---	164	146	---
Typhoid fever	8	26	22	204	218	334
Rabies in Animals	81	70	83	2,556	2,167	2,165

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Psittacosis:	18
Botulism:	10	Rabies in Man:	-
Leptospirosis:	21	Smallpox:	-
Malaria: Ind-1, Kans-1, Ark-1, Calif-1	48	Typhus-	
Plague:	-	Murine: Fla-1	13
		Rky Mt. Spotted: Md-2, Va-2, WVa-1	73

TICK-BORNE TYPHUS OF THE EASTERN HEMISPHERE (KENYA TICK TYPHUS) – Maryland

Maryland reported a case of tick-borne typhus of the Eastern Hemisphere (Kenya tick typhus-fievre boutonneuse), diagnosed clinically in Baltimore in a 55-year-old white American male who had returned from extended residence in Kenya.

The patient, a State Department Official, hunted in Kenya on several occasions during the prior 18 months. On his last two safaris, March 27 to 29 and April 3 and 4, he skinned the animals shot. He frequently removed ticks from the hunting dog as well as those ticks attached to his skin.

On the day he left Kenya, April 8, the patient noted, but disregarded, a non-tender lesion in the right axilla. While enroute to Greece the following day, he experienced insomnia, a symptom attributed to the stress of travel. On the day after arrival in the United States (April 10), he felt chilly and noted fever of 101.5° F. On April 13, his temperature was 102.4° F. Because of mild headache, nausea, malaise, fever and the persistence of the lesion on his axilla, he entered the U.S. Public Health Service Hospital in Baltimore for a medical check-up. On physical examination, his conjunctivae were noted to be injected bilaterally. The axillary lesion, non-tender, was described as "indurated like a button" with a black center, 1 cm. in diameter with surrounding erythema (tache noire) and with three or four satellite lymph nodes. There was no generalized lymphadenopathy. Lungs were clear. Numerous insect bites were noted on both legs. His white blood count was 4,700 (27 neutrophils, 33 bands, 29 lymphocytes, and 11 monocytes).

On the following day, the fourth day of his illness, the patient demonstrated a maculopapular rash over his abdomen and buttocks for the first time. The rash became more pronounced 24 hours later, extending to the soles. No rash was present on his hands. His temperature rose to a high of 103° F. The blood leukocyte count was 11,000.

The diagnosis of a rickettsial disease, tick-borne typhus of the Eastern Hemisphere (Kenya tick typhus) was considered as the most likely diagnosis. The patient was treated with chloramphenicol. Within 24 hours his temperature dropped to 100° F. and within 48 hours his rash disappeared. The antibiotic was stopped after 5 days of therapy; within the 48 hours thereafter, his temperature rose to 103.8° F., his symptoms of malaise, headache, and backache, and the conjunctival injection returned. Antibiotic therapy was reinstituted and his symptoms disappeared. The antibiotic was stopped at discharge April 28. The patient was asymptomatic when examined for follow-up evaluation on May 25.

The patient's serum showed a rise in agglutinins to Proteus OX-2, but not to OX-19:

	OX-2	OX-19
April 15	Neg.	1:40
April 20	1:320	1:40

Further laboratory studies, including complement fixation tests are being performed. Attempts to isolate rickettsiae from the patient's blood were negative. Specimens of the eschar and skin lesion obtained by biopsy showed a vascular reaction considered typical of a rickettsial infection. Ticks obtained from the dog with which the patient had contact are under evaluation for the presence of rickettsiae.

(Reported by George F. Ellinger, M.D., Chief of Medicine, USPHS Hospital, Baltimore, Md., T. E. Woodward, M.D., Professor of Medicine and Head, Department of Medicine, University of Maryland School of Medicine, and John H. Janney, M.D., M.P.H., Acting Chief, Bureau of Preventive Medicine, Division of Epidemiology, Maryland State Department of Health.)

Editor's Note: Kenya Tick Fever is caused by *Rickettsia conorii*. The disease is widely distributed geographically, occurring throughout the African continent, the Mediterranean, Black and Caspian Sea areas, and in India. It is transmitted by the bite of the brown dog tick and other ixodid ticks from dog and wild rodent hosts. This case is an excellent example of the lack of geographical boundaries in the occurrence of exotic diseases in this era of jet air travel.

ENCEPHALITIS IN HORSES – Florida

A total of 51 cases of encephalitis-like illness in horses has been observed in Florida to date in 1964. Cases were first reported in March but most occurred in May and June; there is evidence of continuing infection among horses. The cases for the most part concentrated in counties of the central and north central part of the State. No known human cases have occurred to date, although one suspect human case is being investigated at present.

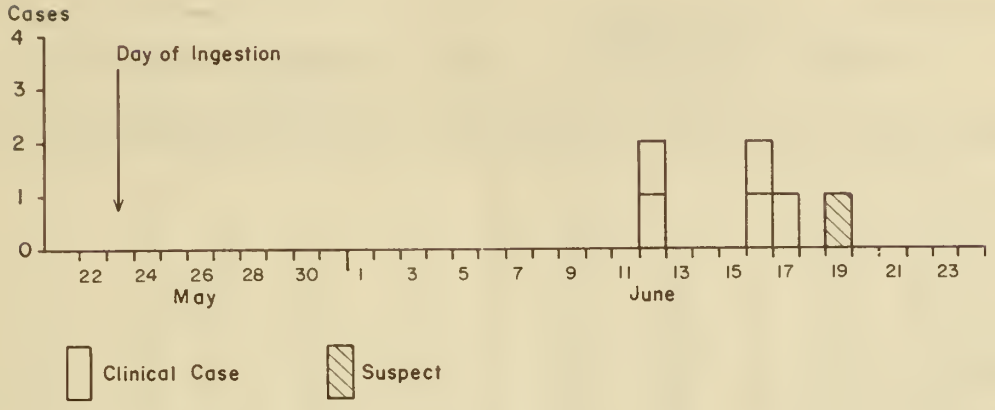
Virologic study of brain specimens from 12 of the horse cases submitted to 3 State laboratories has resulted in isolation of Western Equine Encephalitis virus from the brain of one horse and Eastern Equine Encephalitis virus from the brains of 3 other horses. Viral agents have been recovered from brain tissue of 4 others, but as yet these remain to be identified.

Group A arboviruses have also been recovered from pools of mosquitoes collected in areas where horse cases have occurred. Both Western Equine Encephalitis virus and Eastern Equine Encephalitis virus have been identified in pools of *Culiseta melanura*.

Serologic evidence of previous infection with Group A arboviruses have been detected in a few wild birds and mammals and in sentinel chickens in the areas of horse cases. In the tri-county Tampa Bay area, 150 humans with suspected central nervous system disorders during 1964

(Please turn to page 248)

TRICHINOSIS OUTBREAK – NEW BRIGHTON VILLAGE, MINNESOTA, 1964



TRICHINOSIS – Minnesota

From 20 to 27 days after a private outdoor barbecue in New Brighton Village, Minnesota, May 23, 6 of 8 individuals who ate rare hamburger developed clinical or suspect cases of trichinosis. (See graph above).

The symptoms varied with each individual and included fever, malaise, periorbital edema, muscle pains, headache, and abdominal discomfort. All but Case 6 had periorbital edema. Only Case 4 experienced diarrhea. A line listing appears below.

Two patients required hospitalization; electrocardiograms of both patients were interpreted as normal. Acute sera were submitted to CDC; Bentonite-flocculation tests for trichinosis were negative. Convalescent samples will be studied. Muscle biopsies were not performed.

Two packages of hamburger, purchased from different supermarkets, were used. One was purchased the day of consumption as "ground round," the other had been purchased earlier and stored in the freezer of the home refrigerator until the day of the barbecue. Four patties were made from the frozen meat, the remainder from the fresh meat; they were not mixed. There was no known consumption of sausage, ham or pork by the patients. No hamburger remained for analysis.

The namburger was traced to 2 supermarkets, but no evidence of substituted or infected meat was found. No meat grinder, common to both pork and beef was used in either supermarket.

No other cases have been reported.

(Reported by D. S. Fleming, M.D., M.P.H., Director, Division of Disease Prevention and Control, Minnesota Department of Health)

Editor's Note: It is not known which batch of hamburger the ill patients ate. The fact that illness developed in at least 5 individuals, and that only 4 patties were made from frozen meat (from which the chance of infection would be less), would make the fresh meat more suspect. Were this the case, then the consumption of the 4 frozen patties could be accounted for by the 2 guests who remained well and by Cases 3 and 4, who each ate an additional hamburger.

Individuals Attending Party	Age	Sex	Amount Hamburger ¼ Potties Consumed	Incubation Period	Eosinophilio	Severity
Ill						
1	41	F	<1	20 doys	29-50%	Hospitolized
2	35	F	1	20 doys	25-39%	Hospitolized
3	33	F	2	24 doys	N. R.	In ond out of bed
4	39	M	2	24 doys	N. R.	Out of work 1 week
5	37	M	1	25 doys	N. R.	Out of work 4 days
6*	28	F	<1	27 days	N. R.	No orbital edema; leg muscle pain
Not Ill						
7**	Unknown	M	1	–	–	–
8**	Unknown	F	1	–	–	–

*Suspect; **Asymptomotic; N.R. Not Reported.

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JULY 11, 1964 AND JULY 13, 1963 (28TH WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	34	49	32	15	4	11	48	114	4	8	36	94
NEW ENGLAND.....	-	-	-	-	1	-	1	1	1	-	1	1
Maine.....	-	-	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	1	-	1	-	1	-	1	-
MIDDLE ATLANTIC.....	1	-	6	-	2	2	7	31	2	1	7	23
New York City.....	1	-	2	-	-	-	1	-	-	-	1	-
New York, Up-State.	-	-	1	-	2	-	4	5	2	-	4	5
New Jersey.....	-	-	2	-	-	-	2	-	-	-	2	-
Pennsylvania.....	-	-	1	-	-	2	-	26	-	1	-	18
EAST NORTH CENTRAL...	6	10	8	1	-	1	6	19	-	-	5	14
Ohio.....	2	2	5	-	-	-	2	5	-	-	2	3
Indiana.....	-	1	1	-	-	-	-	2	-	-	-	1
Illinois.....	-	3	1	1	-	-	3	7	-	-	3	6
Michigan.....	3	4	-	-	-	-	1	3	-	-	-	3
Wisconsin.....	1	-	1	-	-	1	-	2	-	-	-	1
WEST NORTH CENTRAL...	4	5	7	-	-	-	2	2	-	-	1	2
Minnesota.....	3	5	1	-	-	-	-	2	-	-	-	2
Iowa.....	1	-	3	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	2	-	-	-	1	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	1	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	2	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	1	1	-	-	1	1	19	13	1	1	14	10
Delaware.....	-	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	1	-	-	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	-	-	-	-	-	-	2	-	-	-	1
West Virginia.....	-	1	-	-	-	-	1	1	-	-	1	1
North Carolina.....	-	-	-	-	-	-	8	3	-	-	4	3
South Carolina.....	-	-	-	-	-	1	2	3	-	1	2	2
Georgia.....	-	-	-	-	-	-	1	1	-	-	1	-
Florida.....	-	-	-	-	1	-	6	3	1	-	5	3
EAST SOUTH CENTRAL...	3	10	2	-	-	6	4	17	-	6	2	15
Kentucky.....	3	-	2	-	-	-	-	-	-	-	-	-
Tennessee.....	-	1	-	-	-	2	2	4	-	2	1	4
Alabama.....	-	1	-	-	-	3	2	11	-	3	1	9
Mississippi.....	-	8	-	-	-	1	-	2	-	1	-	2
WEST SOUTH CENTRAL...	1	6	2	-	-	-	2	15	-	-	2	15
Arkansas.....	-	-	-	-	-	-	-	1	-	-	-	1
Louisiana.....	1	-	1	-	-	-	-	12	-	-	-	12
Oklahoma.....	-	1	-	-	-	-	1	-	-	-	1	-
Texas.....	-	5	1	-	-	-	1	2	-	-	1	2
MOUNTAIN.....	1	1	3	-	-	-	6	1	-	-	3	1
Montana.....	-	1	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-
Colorado.....	1	-	3	-	-	-	1	-	-	-	1	-
New Mexico.....	-	-	-	-	-	-	3	-	-	-	-	-
Arizona.....	-	-	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	17	16	4	14	-	1	1	15	-	-	1	13
Washington.....	1	-	-	-	-	-	-	1	-	-	-	1
Oregon.....	-	-	-	2	-	1	1	2	-	-	1	1
California.....	16	16	4	12	-	-	-	12	-	-	-	11
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	4	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 11, 1964 AND JULY 13, 1963 (28TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	12	212	6	144	565	237	298	30	22,549	24,792	8	204
NEW ENGLAND.....	-	2	-	42	58	23	34	1	2,257	2,690	1	12
Maine.....	-	-	-	39	19	8	11	-	744	1,255	-	-
New Hampshire.....	-	-	-	-	5	2	3	-	164	203	-	-
Vermont.....	-	-	-	-	9	6	3	-	283	35	-	-
Massachusetts.....	-	2	-	3	6	1	4	1	465	780	-	5
Rhode Island.....	-	-	-	-	-	-	-	-	120	62	1	6
Connecticut.....	-	-	-	-	19	6	13	-	481	355	-	1
MIDDLE ATLANTIC.....	-	3	-	5	108	40	68	-	5,089	4,730	2	32
New York City.....	-	-	-	1	27	8	19	-	752	675	1	13
New York, Up-State.	-	1	-	-	41	20	21	-	2,289	2,105	-	7
New Jersey.....	-	-	-	2	17	2	15	-	912	720	-	1
Pennsylvania.....	-	2	-	2	23	10	13	-	1,136	1,230	1	11
EAST NORTH CENTRAL...	-	25	-	6	87	32	47	8	3,414	4,033	2	50
Ohio.....	-	1	-	-	18	3	12	3	906	1,117	-	23
Indiana.....	-	1	-	-	8	3	3	2	307	377	1	10
Illinois.....	-	15	-	6	18	7	9	2	579	863	-	7
Michigan.....	-	4	-	-	38	15	23	-	1,379	1,495	-	7
Wisconsin.....	-	4	-	-	5	4	-	1	243	181	1	3
WEST NORTH CENTRAL...	5	99	-	21	18	11	7	-	1,237	1,147	-	16
Minnesota.....	-	5	-	11	6	4	2	-	117	182	-	1
Iowa.....	3	58	-	-	2	2	-	-	177	212	-	3
Missouri.....	1	8	-	-	2	1	1	-	316	437	-	6
North Dakota.....	-	2	-	2	2	2	-	-	47	29	-	2
South Dakota.....	1	13	-	1	1	-	1	-	106	63	-	1
Nebraska.....	-	11	-	-	3	1	2	-	32	84	-	-
Kansas.....	-	2	-	7	2	1	1	-	442	140	-	3
SOUTH ATLANTIC.....	-	19	1	29	48	23	22	3	2,130	2,573	2	44
Delaware.....	-	-	-	-	-	-	-	-	41	35	-	-
Maryland.....	-	-	-	-	6	5	1	-	413	312	-	2
Dist. of Columbia..	-	-	-	-	-	-	-	-	33	71	-	-
Virginia.....	-	8	-	-	16	5	8	3	328	552	1	10
West Virginia.....	-	-	-	-	3	3	-	-	339	405	-	-
North Carolina.....	-	2	-	-	3	1	2	-	382	641	-	12
South Carolina.....	-	-	1	5	-	-	-	-	71	103	1	5
Georgia.....	-	6	-	20	3	-	3	-	51	111	-	1
Florida.....	-	3	-	4	17	9	8	-	472	343	-	14
EAST SOUTH CENTRAL...	1	11	1	6	42	20	20	2	1,557	2,497	-	21
Kentucky.....	-	3	-	-	11	2	7	2	633	719	-	6
Tennessee.....	1	4	-	1	10	7	3	-	531	985	-	8
Alabama.....	-	3	1	3	9	3	6	-	255	381	-	5
Mississippi.....	-	1	-	2	12	8	4	-	138	412	-	2
WEST SOUTH CENTRAL...	3	21	1	19	53	31	20	2	1,679	1,690	-	11
Arkansas.....	-	4	-	-	1	1	-	-	174	184	-	4
Louisiana.....	-	1	-	5	10	8	2	-	382	325	-	3
Oklahoma.....	1	3	-	-	3	3	-	-	90	83	-	3
Texas.....	2	13	1	14	39	19	18	2	1,033	1,098	-	1
MOUNTAIN.....	2	18	1	2	23	6	4	13	1,398	1,651	1	5
Montana.....	-	-	-	-	2	1	1	-	126	224	-	-
Idaho.....	-	-	-	-	6	-	-	6	152	259	-	-
Wyoming.....	-	-	-	-	-	-	-	-	45	23	1	1
Colorado.....	-	-	-	-	2	1	-	1	395	348	-	-
New Mexico.....	-	1	-	1	4	3	1	-	197	199	-	-
Arizona.....	1	2	1	1	5	-	-	5	317	393	-	4
Utah.....	1	14	-	-	3	1	2	-	124	192	-	-
Nevada.....	-	1	-	-	1	-	-	1	42	13	-	-
PACIFIC.....	1	14	2	14	128	51	76	1	3,788	3,781	-	13
Washington.....	-	-	2	13	13	6	7	-	436	653	-	1
Oregon.....	1	2	-	-	6	2	3	1	410	494	-	-
California.....	-	12	-	1	99	36	63	-	2,744	2,541	-	12
Alaska.....	-	-	-	-	7	7	-	-	122	68	-	-
Hawaii.....	-	-	-	-	3	-	3	-	76	25	-	-
Puerto Rico	-	-	-	7	12	12	-	-	440	423	-	9

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JULY 11, 1964 AND JULY 13, 1963 (28TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	4,047	38	1,611	1,513	4,263	3,786	2	130	10	164	81	2,556
NEW ENGLAND.....	353	1	47	93	530	304	-	5	-	-	1	17
Maine.....	93	-	5	16	93	34	-	-	-	-	1	15
New Hampshire.....	1	-	1	4	19	46	-	-	-	-	-	1
Vermont.....	67	-	1	3	2	-	-	-	-	-	-	1
Massachusetts.....	98	-	19	42	26	50	-	5	-	-	-	-
Rhode Island.....	19	-	7	9	45	7	-	-	-	-	-	-
Connecticut.....	75	1	14	19	345	167	-	-	-	-	-	-
MIDDLE ATLANTIC.....	549	4	200	206	232	132	-	9	-	-	7	74
New York City.....	128	1	28	30	7	6	-	-	-	-	-	-
New York, Up-State.	255	1	55	65	194	74	-	2	-	-	6	70
New Jersey.....	131	-	69	29	8	34	-	5	-	-	-	-
Pennsylvania.....	35	2	48	82	23	18	-	2	-	-	1	4
EAST NORTH CENTRAL...	861	6	229	241	409	349	1	21	1	14	8	346
Ohio.....	63	1	62	69	14	13	1	4	-	1	-	179
Indiana.....	171	1	35	30	148	59	-	3	-	1	2	19
Illinois.....	46	-	54	44	70	62	-	7	1	9	-	75
Michigan.....	411	3	52	71	141	140	-	6	-	1	3	32
Wisconsin.....	170	1	26	27	36	75	-	1	-	2	3	41
WEST NORTH CENTRAL...	172	6	103	89	174	110	-	7	3	35	29	830
Minnesota.....	20	-	22	18	6	4	-	1	-	1	8	249
Iowa.....	86	-	6	5	34	23	-	2	-	1	10	297
Missouri.....	4	4	52	30	60	-	-	2	2	21	3	129
North Dakota.....	62	1	11	4	40	40	-	-	-	-	1	45
South Dakota.....	-	-	-	5	2	5	-	1	1	4	2	68
Nebraska.....	-	1	6	19	-	-	-	-	-	-	-	23
Kansas.....	NN	-	6	8	32	38	-	1	-	8	5	19
SOUTH ATLANTIC.....	348	8	354	286	551	243	-	42	1	19	7	339
Delaware.....	3	-	6	2	-	1	-	-	-	-	-	-
Maryland.....	10	1	24	44	20	37	-	3	-	-	-	-
Dist. of Columbia..	-	-	12	4	-	-	-	-	-	-	-	-
Virginia.....	59	-	39	69	101	41	-	5	-	4	1	192
West Virginia.....	100	2	26	15	104	72	-	1	-	-	-	23
North Carolina.....	39	-	59	51	8	9	-	12	-	4	-	4
South Carolina.....	26	-	48	13	38	21	-	3	-	-	-	1
Georgia.....	2	2	46	22	10	-	-	1	1	11	3	69
Florida.....	109	3	94	66	270	62	-	17	-	-	3	50
EAST SOUTH CENTRAL...	315	4	145	117	632	774	-	15	-	19	5	323
Kentucky.....	35	1	47	25	50	65	-	2	-	1	-	44
Tennessee.....	252	2	49	51	512	651	-	8	-	12	5	265
Alabama.....	18	1	31	21	53	14	-	4	-	3	-	14
Mississippi.....	10	-	18	20	17	44	-	1	-	3	-	-
WEST SOUTH CENTRAL...	461	6	150	150	654	596	1	14	3	51	10	370
Arkansas.....	1	2	19	10	3	-	1	5	2	30	4	93
Louisiana.....	2	2	102	62	3	1	-	3	-	1	-	31
Oklahoma.....	1	1	7	29	8	42	-	-	-	16	3	63
Texas.....	457	1	22	49	640	553	-	6	1	4	3	183
MOUNTAIN.....	271	2	59	52	478	769	-	4	2	26	7	93
Montana.....	62	-	-	3	11	30	-	-	2	16	-	-
Idaho.....	50	-	3	4	81	60	-	-	-	-	-	-
Wyoming.....	6	-	3	4	6	4	-	1	-	4	-	-
Colorado.....	52	-	11	12	40	244	-	-	-	-	1	6
New Mexico.....	3	1	23	4	160	219	-	1	-	-	5	44
Arizona.....	45	1	5	8	71	96	-	1	-	-	1	42
Utah.....	40	-	6	14	109	101	-	1	-	6	-	-
Nevada.....	13	-	8	3	-	15	-	-	-	-	-	1
PACIFIC.....	717	1	324	279	603	509	-	13	-	-	7	164
Washington.....	31	-	25	21	71	63	-	1	-	-	-	-
Oregon.....	215	-	18	18	8	7	-	-	-	-	1	4
California.....	453	1	265	225	506	410	-	11	-	-	6	160
Alaska.....	4	-	6	8	3	8	-	-	-	-	-	-
Hawaii.....	14	-	10	7	15	21	-	1	-	-	-	-
Puerto Rico	162	-	26	5	7	6	-	43	-	-	-	14

Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	6/20	6/27	7/4	7/11
NEW ENGLAND:				
Boston, Mass.	133	132	112	126
Bridgeport, Conn.	19	33	19	42
Cambridge, Mass.	22	23	21	13
Fall River, Mass.	20	15	17	21
Hartford, Conn.	33	23	35	22
Lowell, Mass.	15	13	9	17
Lynn, Mass.	24	18	13	19
New Bedford, Mass.	25	18	23	12
New Haven, Conn.	25	32	33	30
Providence, R.I.	36	45	41	35
Somerville, Mass.	10	5	14	8
Springfield, Mass.	24	32	17	38
Waterbury, Conn.	22	22	18	18
Worcester, Mass.	28	43	31	32
MIDDLE ATLANTIC:				
Albany, N.Y.	23	36	17	40
Allentown, Pa.	19	22	22	14
Buffalo, N.Y.	74	80	66	87
Camden, N.J.	17	18	19	30
Elizabeth, N.J.	14	21	15	19
Erie, Pa.	19	24	33	24
Jersey City, N.J.	49	30	38	49
Newark, N.J.	37	58	36	53
New York City, N.Y.	938	990	853	1,036
Paterson, N.J.	27	24	19	24
Philadelphia, Pa.	159	271	316	305
Pittsburgh, Pa.	65	137	99	111
Reading, Pa.	42	33	48	31
Rochester, N.Y.	63	67	57	61
Schenectady, N.Y.	11	16	10	13
Scranton, Pa.	29	20	17	34
Syracuse, N.Y.	43	36	46	39
Trenton, N.J.	37	36	27	17
Utica, N.Y.	31	16	27	29
Yonkers, N.Y.	22	28	11	22
EAST NORTH CENTRAL:				
Akron, Ohio	29	45	24	44
Canton, Ohio	23	21	23	22
Chicago, Ill.	368	436	355	525
Cincinnati, Ohio	73	84	84	92
Cleveland, Ohio	102	140	134	123
Columbus, Ohio	55	48	72	73
Dayton, Ohio	56	39	40	59
Detroit, Mich.	186	197	245	206
Evansville, Ind.	24	22	16	21
Flint, Mich.	23	30	21	20
Fort Wayne, Ind.	25	18	27	20
Gary, Ind.	11	26	12	18
Grand Rapids, Mich.	36	20	30	34
Indianapolis, Ind.	102	82	84	106
Madison, Wis.	12	16	11	24
Milwaukee, Wis.	76	66	70	98
Peoria, Ill.	19	16	14	10
Rockford, Ill.	18	15	18	23
South Bend, Ind.	25	24	27	22
Toledo, Ohio	55	57	71	57
Youngstown, Ohio	35	45	34	35
WEST NORTH CENTRAL:				
Des Moines, Iowa	39	36	23	39
Duluth, Minn.	23	14	13	15
Kansas City, Kans.	13	23	14	27
Kansas City, Mo.	80	87	69	102
Lincoln, Nebr.	15	12	8	31
Minneapolis, Minn.	57	67	69	101
Omaha, Nebr.	32	37	27	61
St. Louis, Mo.	109	154	108	126
St. Paul, Minn.	37	39	51	51
Wichita, Kans.	35	34	24	33
SOUTH ATLANTIC:				
Atlanta, Ga.	43	62	51	62
Baltimore, Md.	104	124	116	116
Charlotte, N.C.	28	13	7	20
Jacksonville, Fla.	29	32	23	36
Miami, Fla.	40	42	38	41
Norfolk, Va.	26	35	22	19
Richmond, Va.	36	51	26	45
Savannah, Ga.	7	17	18	22
St. Petersburg, Fla.	65	66	64	47
Tampa, Fla.	43	49	32	39
Washington, D.C.	99	70	88	94
Wilmington, Del.	24	21	10	28
EAST SOUTH CENTRAL:				
Birmingham, Ala.	42	45	47	31
Chattanooga, Tenn.	23	23	46	32
Knoxville, Tenn.	24	24	19	27
Louisville, Ky.	83	48	83	70
Memphis, Tenn.	60	73	45	78
Mobile, Ala.	14	26	13	27
Montgomery, Ala.	21	21	33	16
Nashville, Tenn.	53	50	36	59
WEST SOUTH CENTRAL:				
Austin, Tex.	22	13	20	16
Baton Rouge, La.	12	15	12	17
Corpus Christi, Tex.	12	20	14	14
Dallas, Tex.	67	68	77	58
El Paso, Tex.	12	21	12	32
Fort Worth, Tex.	44	32	23	44
Houston, Tex.	87	101	73	71
Little Rock, Ark.	31	33	13	35
New Orleans, La.	90	91	56	85
Oklahoma City, Okla.	37	30	40	54
San Antonio, Tex.	58	53	51	69
Shreveport, La.	38	31	25	22
Tulsa, Okla.	29	27	18	45
MOUNTAIN:				
Albuquerque, N. Mex.	13	11	10	23
Colorado Springs, Colo.	11	10	13	15
Denver, Colo.	56	59	77	58
Ogden, Utah.	8	6	6	12
Phoenix, Ariz.	29	47	49	71
Pueblo, Colo.	9	7	11	9
Salt Lake City, Utah.	33	29	28	28
Tucson, Ariz.	27	24	20	22
PACIFIC:				
Berkeley, Calif.	11	5	11	10
Fresno, Calif.	21	25	29	33
Glendale, Calif.	18	27	32	23*
Honolulu, Hawaii	15	28	18	21
Long Beach, Calif.	33	38	34	40
Los Angeles, Calif.	284	275	231	242
Oakland, Calif.	47	57	79	53
Pasadena, Calif.	20	30	22	23
Portland, Oreg.	70	88	51	56
Sacramento, Calif.	40	29	32	28
San Diego, Calif.	40	52	57	42
San Francisco, Calif.	106	102	109	94
San Jose, Calif.	15	13	20	9
Seattle, Wash.	81	96	70	77
Spokane, Wash.	32	40	27	28
Tacoma, Wash.	28	23	31	28
San Juan, P.R.	(---)	(---)	(---)	(---)

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages..... 12,213
4(B) Pneumonia-Influenza Deaths, all ages..... 424
4(C) Total Deaths under 1 Year of Age..... 785
4(D) Total Deaths, Persons 65 years and over..... 6,839

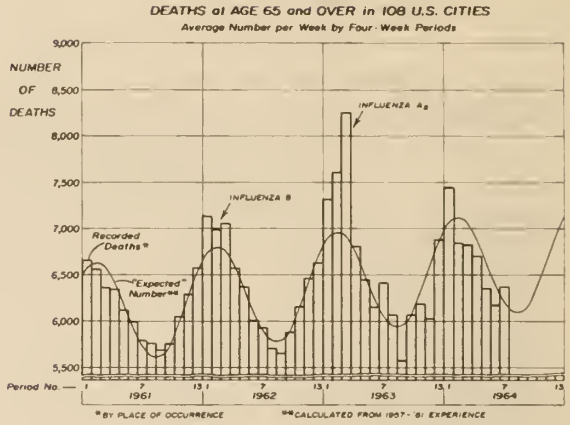
NOTE: All deaths by place of occurrence.

3 1262 08864 2946

SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U.S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending July 11 was 6,365 as compared with an expected weekly average of 6,237.

	Week Ending				4 Week Total	Weekly Average
	6/20	6/27	7/4	7/11		
Observed	6,082	6,563	5,975	6,839	25,459	6,365
Expected	6,302	6,256	6,214	6,176	24,948	6,237
Excess	– 220	307	– 239	663	511	128



(See Table, page 247)

were investigated serologically and none showed evidence of recent arbovirus infection.

(Reported by C.M. Sharp, M.D., Acting Director, Bureau of Preventable Diseases, Florida State Board of Health, and James O. Bond, M.D., Director, Encephalitis Research Center, Florida State Board of Health, Tampa, Florida.)

Editor's Note: The recovery of Western Equine Encephalitis from horses is unusual in the eastern third of the U.S.A., although it is occasionally isolated in this area from mosquitoes. The isolation of the agent from a horse in Florida appears to be the first such isolation in that State.

UNIV OF FL LIB.
DOCUMENTS DEPT.
U.S DEPOSITORY

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 11,000 IS PUBLISHED BY THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

CHIEF, COMMUNICABLE DISEASE CENTER — JAMES L. GODDARD, M.D.
CHIEF, EPIDEMIOLOGY BRANCH — A. D. LANGMUIR, M.D.
CHIEF, STATISTICS SECTION — R. E. SERFLING, PH.D.
ASST. CHIEF, STATISTICS SECTION — I. L. SHERMAN, M.S.
CHIEF, SURVEILLANCE SECTION — D. A. HENDERSON, M.D.
EDITOR, MMWR — L. K. ALTMAN, M.D.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASES, SUCH ACCOUNTS SHOULD BE ADDRESSED TO:

LAWRENCE K. ALTMAN, M.D., EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: - - - DATA NOT AVAILABLE
- QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta, Georgia 30333

Official Business

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF H. E. W.